

Title (en)
CELLS USEFUL FOR IMMUNO-BASED BOTULINUM TOXIN SEROTYPE A ACTIVITY ASSAYS

Title (de)
FÜR BOTULINUMTOXIN-SEROTYP-A-AKTIVITÄTSTESTS AUF IMMUNBASIS GEEIGNETE ZELLEN

Title (fr)
CELLULES UTILES POUR DES ESSAIS D'ACTIVITÉ DE LA TOXINE BOTULINIQUE DE SÉROTYPE A BASÉS SUR L'IMMUNOLOGIE

Publication
EP 2406371 B1 20180509 (EN)

Application
EP 10709359 A 20100312

Priority
• US 2010027242 W 20100312
• US 16019909 P 20090313

Abstract (en)
[origin: WO2010105234A1] The present specification discloses clonal cell lines susceptible to BoNT/A intoxication, methods of producing such clonal cell lines, and methods of detecting Botulinum toxin serotype A activity using such clonal cell lines.

IPC 8 full level
C12N 5/079 (2010.01); **C12Q 1/37** (2006.01); **G01N 33/50** (2006.01)

CPC (source: EP KR US)
C07K 16/1282 (2013.01 - US); **C12N 5/00** (2013.01 - KR); **C12N 5/0602** (2013.01 - KR); **C12N 5/0618** (2013.01 - EP US);
C12N 5/0693 (2013.01 - EP US); **C12N 15/63** (2013.01 - KR); **G01N 33/5014** (2013.01 - EP US); **G01N 33/5058** (2013.01 - US);
G01N 33/5091 (2013.01 - US); **G01N 33/567** (2013.01 - US); **G01N 33/586** (2013.01 - US); **Y02A 50/30** (2017.12 - EP)

Citation (examination)
• MARINI PATRIZIA ET AL: "SiMa, a new neuroblastoma cell line combining poor prognostic cytogenetic markers with high adrenergic differentiation", CANCER GENETICS AND CYTOGENETICS, ELSEVIER SCIENCE PUBLISHING, NEW YORK, NY, US, vol. 112, 1 January 1999 (1999-01-01), pages 161 - 164, XP003027695, ISSN: 0165-4608
• ESTER FERNÁNDEZ-SALAS ET AL: "Botulinum Neurotoxin Serotype a Specific Cell-Based Potency Assay to Replace the Mouse Bioassay", PLOS ONE, vol. 7, no. 11, 21 November 2012 (2012-11-21), pages e49516, XP055070996, DOI: 10.1371/journal.pone.0049516

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2010105234 A1 20100916; AU 2010223910 A1 20110915; AU 2010223910 B2 20150312; BR PI1008940 A2 20201027;
CA 2735242 A1 20100916; CA 2735242 C 20170124; CL 2011002272 A1 20120323; CN 102439138 A 20120502; CN 102439138 B 20180330;
CO 6440562 A2 20120515; CO 6440563 A2 20120515; CY 1120579 T1 20190710; DK 2406371 T3 20180813; EP 2406371 A1 20120118;
EP 2406371 B1 20180509; EP 3330372 A1 20180606; EP 3858984 A1 20210804; ES 2689703 T3 20181115; HK 1256548 A1 20190927;
HU E038699 T2 20181128; IL 214794 A0 20111130; IL 214794 A 20150924; IL 240785 A0 20151029; IL 240785 A 20160630;
JP 2012520083 A 20120906; JP 2015077153 A 20150423; JP 5717657 B2 20150513; JP 6105645 B2 20170329; KR 101762970 B1 20170731;
KR 101898557 B1 20180914; KR 102017327 B1 20190903; KR 20120001757 A 20120104; KR 20170086699 A 20170726;
KR 20180102695 A 20180917; KR 20190104231 A 20190906; KR 20200146046 A 20201231; MX 2011009621 A 20111216;
MY 175803 A 20200709; NZ 594702 A 20130531; PL 2406371 T3 20181130; PT 2406371 T 20181018; RU 2011139364 A 20130420;
SG 174350 A1 20111028; SI 2406371 T1 20181030; US 2010233802 A1 20100916; US 2012149103 A1 20120614;
US 2012149104 A1 20120614; US 2012149105 A1 20120614; US 2012149106 A1 20120614; US 2012156769 A1 20120621;
US 2012156774 A1 20120621; US 2012156775 A1 20120621; US 2012156776 A1 20120621; US 2012164728 A1 20120628;
US 2012208271 A1 20120816; US 2012208272 A1 20120816; US 2012214229 A1 20120823; US 2012214231 A1 20120823;
US 2013236963 A1 20130912; US 2014093957 A1 20140403; US 2017218334 A1 20170803; US 2021163887 A1 20210603;
US 2023323290 A1 20231012; US 8361789 B2 20130129; US 8455213 B2 20130604; US 8455247 B2 20130604; US 8455248 B2 20130604;
US 8476068 B2 20130702; US 8476069 B2 20130702; US 8501469 B2 20130806; US 8507271 B2 20130813; US 8603812 B2 20131210;
US 8603813 B2 20131210; US 8663982 B2 20140304; US 8663983 B2 20140304; US 8691566 B1 20140408; US 9625447 B2 20170418

DOCDB simple family (application)
US 2010027242 W 20100312; AU 2010223910 A 20100312; BR PI1008940 A 20100312; CA 2735242 A 20100312; CL 2011002272 A 20110913;
CN 201080021093 A 20100312; CO 11133166 A 20111007; CO 11133183 A 20111007; CY 181100818 T 20180807; DK 10709359 T 20100312;
EP 10709359 A 20100312; EP 18150275 A 20100312; EP 21156000 A 20100312; ES 10709359 T 20100312; HK 18115618 A 20181206;
HU E10709359 A 20100312; IL 21479411 A 20110822; IL 24078515 A 20150824; JP 2011554258 A 20100312; JP 2015014588 A 20150128;
KR 20117023981 A 20100312; KR 20177020064 A 20100312; KR 20187025956 A 20100312; KR 20197025186 A 20100312;
KR 20207037177 A 20100312; MX 2011009621 A 20100312; MY PI2011004315 A 20100312; NZ 59470210 A 20100312;
PL 10709359 T 20100312; PT 10709359 T 20100312; RU 2011139364 A 20100312; SG 2011065638 A 20100312; SI 201031729 T 20100312;
US 201113339056 A 20111228; US 201113339079 A 20111228; US 201113339106 A 20111228; US 201113339128 A 20111228;
US 201113339166 A 20111228; US 201113339179 A 20111228; US 201113339211 A 20111228; US 201113339225 A 20111228;
US 201113339232 A 20111228; US 201113339237 A 20111228; US 201113339248 A 20111228; US 201113339260 A 20111228;
US 201113339264 A 20111228; US 201113339268 A 20111228; US 201113339274 A 20111228; US 201715488734 A 20170417;
US 202117148278 A 20210113; US 202217884069 A 20220809; US 72280110 A 20100312